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MEASUREMENT REPORT FCC PART 15.225 / ISED RSS-210 NFC

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea

Date of Testing: 06/14 - 06/23/2020 **Test Site/Location:** PCTEST Lab. Columbia, MD, USA **Test Report Serial No.:** 1M2006110093-01.A3L

FCC ID:	A3L-EFNN985
IC:	649E-EFNN985
APPLICANT:	Samsung Electronics Co., Ltd.

Application Type.	Certification
Model/HVIN:	EF-NN985
EUT Type:	LED View Cover
Frequency:	13.56MHz
FCC Classification:	Low Power Communications Device Transmitter (DXX)
FCC Rule Part(s):	Part 15 Subpart C (15.225)
ISED Specification:	RSS-210 Issue 10
Test Procedure(s):	ANSI C63.10-2013

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Randy Ortanez President



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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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2.0 **PRODUCT INFORMATION**

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung LED View Cover FCC ID: A3L-EFNN985**. The EUT is an NFC powered cover that snaps onto a representative mobile handset (Model: SM-N986U). The test data contained in this report pertains only to the emissions due to the NFC transmitter of the EUT.

Test Device Serial No.: YXHB3

2.2 Test Configuration

The EUT was set to continuously transmit at 13.56MHz. This was performed using manufacturer software loaded on the representative mobile handset. The software allowed for continuous transmission between the LED cover and the handset. During the test, the LED cover was going through different LED patterns continuously (i.e., incoming call, clock). This device was tested in accordance with the guidance of ANSI C63.10-2013. See Sections 3.2 and 3.3 of this test report for a description of the AC line conducted emissions and radiated emissions test setups, respectively.

2.3 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TEST

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50\mu$ H Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.6. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the EUT are permanently attached.
- This unit was tested with its standard battery.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9038A	MXE EMI Receiver	7/17/2019	Annual	7/17/2020	MY51210133
COM-Power	AL-130R	Active Loop Antenna	8/22/2019	Annual	8/22/2020	121085
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	6/3/2019	Annual	7/1/2020	NMLC-2
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	6/5/2019	Annual	7/1/2020	100342
Solar Electronics	8012-50-R-24-BNC	Line Impedance Stabilization Network	10/1/2019	Biennial	10/1/2021	310233
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	5/19/2018	Biennial	7/1/2020	A051107

Table 6-1. Annual Test Equipment Calibration Schedule

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7.0 TEST DATA

7.1 Summary

Company Name:	Samsung Electronics Co., Ltd.
FCC ID:	A3L-EFNN985
FCC Classification:	Low Power Communications Device Transmitter (DXX)

Frequencies Examined: <u>13.56MHz</u>

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	RSS-Gen [6.6]	Occupied Bandwidth	N/A		PASS	Section 7.2
15.225 (a)(b)(c)	RSS-210 [B.6]	In-Band Emissions	15,848µV/m @ 30m 13.553 – 13.567 MHz 334µV/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz 106µV/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz	RADIATED	PASS	Section 7.4
15.225 (d) 15.209	RSS-Gen [8.9]	Out-of-Band Emissions	Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in 15.209 (RSS- Gen [8.9])		PASS	Section 7.5
15.225 (e)	RSS-210 [B.6]	Frequency Stability Tolerance	\pm 0.01% of Operating Frequency	Temperature Chamber	PASS	Section 7.3
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen)	LINE CONDUCTED	PASS	Section 7.6

Table 7-1. Summary of Test Results

Note:

This unit was tested with its standard battery.

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7.2 Occupied Bandwidth Measurement §2.1049; RSS-Gen (6.6)

Test Overview and Limit

The occupied bandwidth is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.3

Test Settings

- 1. Spectrum analyzer frequency is set to the nominal EUT channel center frequency.
- 2. RBW = 1 5% OBW
- 3. VBW \ge 3 x RBW
- 4. Reference level set to keep signal from exceeding maximum input mixer level for linear operation.
- 5. Detector = Peak
- 6. Trace mode = max hold
- 7. Sweep = auto couple
- 8. The trace was allowed to stabilize
- 9. Using the 99% power bandwidth function of the instrument and report the measured bandwidth.

Test Notes

None.

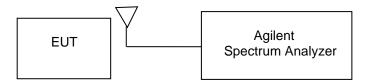


Figure 7-1. Test Instrument & Measurement Setup

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Frequency	Occupied Bandwidth
13.56MHz	22.24kHz

Table 7-2. Occupied Bandwidth Measurement

Keysight Spectrum Analyzer - Occupied BW					- ¢
L RF 50 Ω DC	Trig:	SENSE:INT AL r Freq: 13.560000 MHz Free Run Avg Hold: 1 n: 10 dB	Radio Std:	None	ace/Detector
0 dB/div Ref 20.00 dBm 99 0.0 1.00 0.0					Clear Writ
0.0					Averaç
0.0 0.0 0.0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.www.www.		\sim	www.	Max Ho
enter 13.5600 MHz Res BW 10 kHz	#	VBW 30 kHz Total Power		.000 MHz 5 9.6 ms	Min Ho
	2.240 kHz				Detect
Transmit Freq Error x dB Bandwidth	92 Hz 26.30 kHz	% of OBW Power x dB	- 99.00 % -20.00 dB	Auto) <u>Ma</u>
G			STATUS		

Figure 7-2. Occupied Bandwidth Plot

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7.3 Frequency Stability Test Data §15.225; RSS-210 (B.6)

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.10-2013. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -20°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 15.225, the frequency stability of the transmitter shall be maintained within ±0.01% of the center frequency.

Test Procedure Used

ANSI C63.10-2013 – Section 6.8

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -20°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None.

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Frequency Stability Test Data §15.225; RSS-210 (B.6)

OPERATING FREQUENCY:	13,560,000	Hz
REFERENCE VOLTAGE:	4.21	VDC
DEVIATION LIMIT:	± 0.01 % = 1356Hz	

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.21	+ 20 (Ref)	13,560,168	168	0.0012389
100 %		- 30	13,560,294	294	0.0021681
100 %		- 20	13,559,643	-357	-0.0026327
100 %		- 10	13,560,020	20	0.0001475
100 %		0	13,560,130	130	0.0009587
100 %		+ 10	13,560,265	265	0.0019543
100 %		+ 20	13,560,291	291	0.0021460
100 %		+ 30	13,560,095	95	0.0007006
100 %		+ 40	13,560,009	9	0.0000664
100 %		+ 50	13,560,001	1	0.0000074
BATT. ENDPOINT	2.84	+ 20	13,559,979	-21	-0.0001549

Table 7-3. Frequency Stability Test Data

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Frequency Stability Test Data §15.225; RSS-210 (B.6)

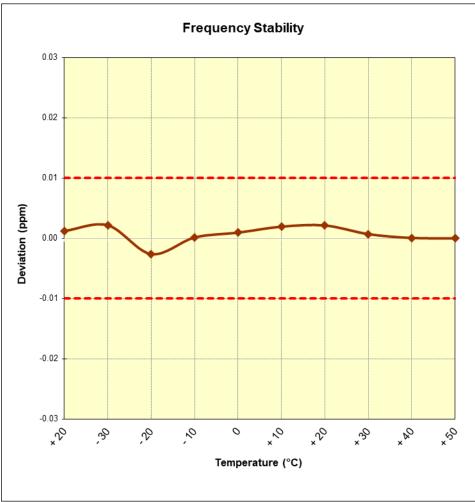


Figure 7-3. Frequency Stability Plot

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7.4 In-Band Radiated Spurious Emission Measurements §15.225(a)(b)(c); RSS-210 (B.6)

Test Overview and Limit

The EUT was tested from 13.110 – 14.010 MHz. All in-band radiated spurious emissions are measured with a spectrum analyzer connected to a loop antenna while the EUT is operating at appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All in-band emissions appearing in a restricted band as specified in Section 15.225 of the Title 47 CFR must not exceed the limits shown in Table 7-4.

Frequency [MHz]	Field Strength [µV/m]	Measured Distance [Meters]
13.553-13.567 MHz	15,848	30
13.410-13.553 MHz and 13.567-13.710 MHz	334	30
13.110-13.410 MHz and 13.710-14.010 MHz	106	30

Table 7-4. Radiated Limits

Test Procedures Used

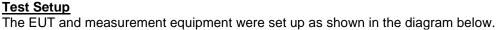
ANSI C63.10-2013 - Section 6.4.7

Test Settings

- 1. RBW = 9kHz
- 2. VBW \geq 3 x RBW
- 3. Detector = peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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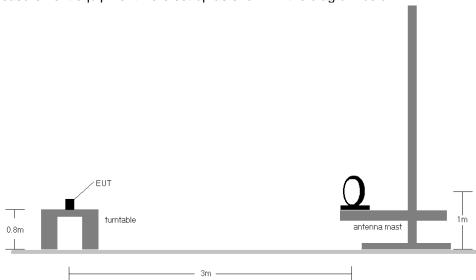


Figure 7-4. Radiated Test Setup

Test Notes:

- 1. All emissions lying in restricted bands specified in §15.225 and RSS-210 are below the limit shown in Table 7-4.
- 2. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
- 3. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
- 4. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor = 20 log₁₀(30/3)² = 40dB.
- 5. The spectrum was investigated from 9kHz up to 30MHz using the loop antenna. Only the emissions shown in the table below were found to be significant.
- 6. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
- 7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculation

- \circ Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

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In-Band Radiated Spurious Emission Measurements §15.225(a)(b)(c); RSS-210 (B.6)

Frequency: 13.56MHz

Measurement Distance: <u>3 Meters</u>

Frequency [MHz]	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dBµV/m]	30m Field Strength [dBµV/m]	Limit	Limit [dBµV/m]	Margin [dB]
13.124	х	100	182	-79.90	20.59	47.69	7.69	106.00	40.51	-32.82
13.255	х	100	182	-80.79	20.58	46.79	6.79	106.00	40.51	-33.72
13.493	х	100	182	-76.45	20.57	51.12	11.12	334.00	50.47	-39.35
13.560	х	100	182	-72.84	20.57	54.73	14.73	15848.00	84.00	-69.27
13.676	х	100	182	-79.40	20.57	48.17	8.17	334.00	50.47	-42.30
13.823	х	100	182	-81.23	20.57	46.34	6.34	106.00	40.51	-34.17
13.915	х	100	182	-80.46	20.57	47.11	7.11	106.00	40.51	-33.39

Table 7-5. In-Band Radiated Measurements

FCC ID: A3L-EFNN985	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dege 10 of 20
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7.5 Radiated Spurious Emission Measurements, Out-of-Band §15.209 §15.225(d); RSS-Gen (8.9)

Test Overview and Limit

The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110 – 14.010 MHz. All measurements up to 960MHz were recorded with a spectrum analyzer employing a quasi-peak detector.

All out-of-band emissions appearing in a restricted band as specified in Section 15.225 of the Title 47 CFR must not exceed the limits shown in Table 7-6 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-6. Radiated Limits – Out of band

Test Procedures Used

ANSI C63.10-2013 – Section 6.5.4

Test Settings

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 9kHz for emissions below 30MHz and 100kHz for emissions between 30MHz and 1GHz
- 3. VBW ≥ 3 x RBW
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

FCC ID: A3L-EFNN985	Poul to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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<u>Test Setup</u> The EUT and measurement equipment were set up as shown in the diagram below.

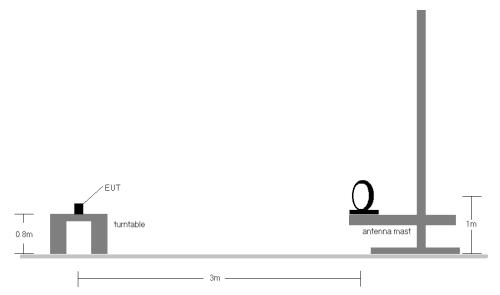
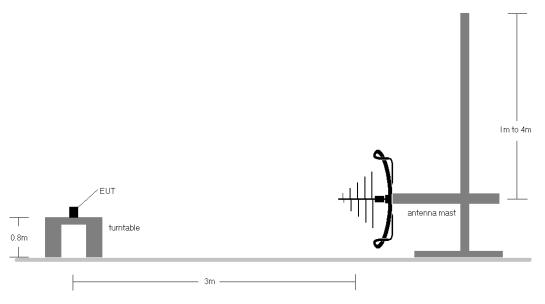
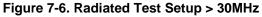


Figure 7-5. Radiated Test Setup < 30MHz





FCC ID: A3L-EFNN985	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Test Notes:

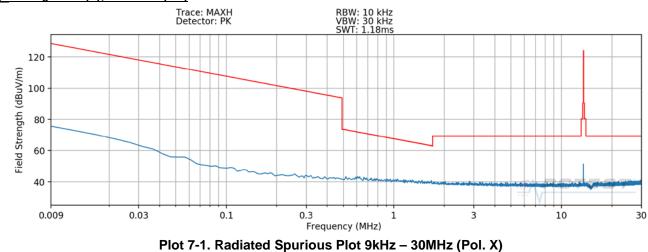
- 1. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector for emissions below 960MHz.
- 2. A loop antenna was used to investigate emissions below 30MHz.
- 3. Both Vertical and Horizontal polarities of the receive antenna were evaluated with the worst case emissions being reported. Below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
- 4. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
- 5. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 6. No spurious emissions levels were found to be greater than the level of the fundamental.
- 7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculation

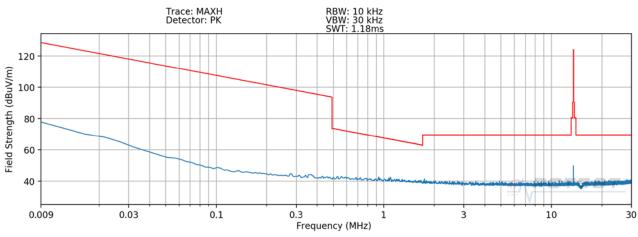
- \circ Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

FCC ID: A3L-EFNN985	Poul to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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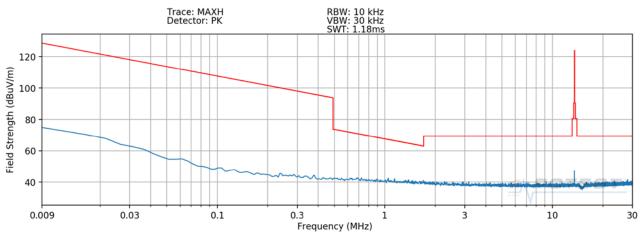




Radiated Spurious Emission Measurements, Out-of-Band §15.209 §15.225(d); RSS-Gen (8.9)



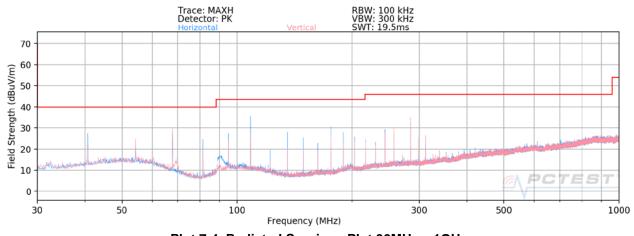






FCC ID: A3L-EFNN985	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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FCC ID: A3L-EFNN985	Pout to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 22 of 29
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Radiated Spurious Emission Measurements, Out-of-Band §15.209 §15.225(d); RSS-Gen (8.9)

Tx Frequency 13.56MHz

Measurement Distance: 3 Meters

27.12 X - - -78.29 -15.40 13.31 69.54 -56.24 40.68 H 112 77 -61.99 -15.40 29.61 40.00 -10.39 54.24 V 129 107 -64.27 -14.16 28.57 40.00 -11.43 67.80 V 106 187 -56.98 -17.91 32.11 40.00 -7.89 81.36 H 228 28 -60.06 -21.30 25.64 40.00 -14.38 94.92 H 173 201 -61.10 -17.26 28.64 43.52 -14.88 108.48 H 268 207 -54.07 -16.97 35.96 43.52 -17.91 122.04 H 182 20 -67.51 -18.86 21.33 43.52 -11.71 149.16 H 120 205 -66.13 -18.64 23.53 43.52 -11.71 158.8 31.81	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	3m Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
54.24 V 129 107 -64.27 -14.16 28.57 40.00 -11.43 67.80 V 106 187 -56.98 -17.91 32.11 40.00 -7.89 81.36 H 228 28 -60.06 -21.30 25.64 40.00 -14.36 94.92 H 173 201 -61.10 -17.26 28.64 43.52 -14.88 108.48 H 268 207 -54.07 -16.97 35.96 43.52 -22.39 135.60 H 152 196 -58.03 -19.94 29.03 43.52 -11.49 149.16 H 200 205 -64.83 -18.64 23.53 43.52 -11.71 152.72 H 200 205 -66.13 -18.68 31.81 43.52 -11.71 168.73 H 190 200 -56.61 -16.27 28.44 46.02 -17.83 203.40 H	27.12	х	-	-	-78.29	-15.40	13.31	69.54	-56.24
67.80 V 106 187 -56.98 -17.91 32.11 40.00 -7.89 81.36 H 228 28 -60.06 -21.30 25.64 40.00 -14.36 94.92 H 173 201 -61.10 -17.26 28.64 43.52 -14.88 108.48 H 268 207 -54.07 -16.97 35.96 43.52 -22.39 135.60 H 152 96 -58.03 -19.94 29.03 43.52 -11.99 144.916 H 200 205 -64.83 -18.64 23.53 43.52 -11.71 152.72 H 200 205 -66.43 -18.68 31.81 43.52 -11.71 168.72 H 190 200 -56.61 -18.58 31.81 43.52 -11.71 169.84 H 140 205 -61.13 -16.71 29.16 43.52 -14.36 203.40 H	40.68	н	112	77	-61.99	-15.40	29.61	40.00	-10.39
81.36 H 228 28 -60.06 -21.30 25.64 40.00 -14.36 94.92 H 173 201 -61.10 -17.26 28.64 43.52 -14.88 108.48 H 268 207 -54.07 -16.97 35.96 43.52 -22.39 135.60 H 182 20 -67.51 -18.36 21.13 43.52 -22.39 135.60 H 152 196 -58.03 -19.94 29.03 43.52 -17.05 162.72 H 200 205 -64.83 -18.64 23.53 43.52 -11.71 176.28 H 190 200 -56.61 -18.58 31.81 43.52 -11.71 188.44 H 167 197 -60.32 -17.07 29.61 43.52 -14.36 203.40 H 140 205 -61.13 -16.27 28.64 46.02 -17.18 216.96 H <td>54.24</td> <td>V</td> <td>129</td> <td>107</td> <td>-64.27</td> <td>-14.16</td> <td>28.57</td> <td>40.00</td> <td>-11.43</td>	54.24	V	129	107	-64.27	-14.16	28.57	40.00	-11.43
94.92 H 173 201 -61.10 -17.26 28.64 43.52 -14.88 108.48 H 268 207 -54.07 -16.97 35.96 43.52 -7.56 122.04 H 182 20 -67.51 -18.36 21.13 43.52 -22.39 135.60 H 152 196 -58.03 -19.94 29.03 43.52 -14.49 149.16 H 209 24 -60.91 -19.62 26.47 43.52 -11.70 162.72 H 200 205 -64.83 -18.64 23.53 43.52 -11.71 189.84 H 167 197 -60.32 -17.07 29.61 43.52 -13.91 203.40 H 140 205 -61.13 -16.71 29.16 43.52 -14.36 230.52 H 135 194 -64.66 -15.31 27.03 46.02 -11.53 244.08 H <td>67.80</td> <td>V</td> <td>106</td> <td>187</td> <td>-56.98</td> <td>-17.91</td> <td>32.11</td> <td>40.00</td> <td>-7.89</td>	67.80	V	106	187	-56.98	-17.91	32.11	40.00	-7.89
108.48H268207-54.07-16.9735.9643.52-7.56122.04H18220-67.51-18.3621.1343.52-22.39135.60H152196-58.03-19.9429.0343.52-14.49149.16H20924-60.91-19.6226.4743.52-17.05162.72H200205-64.83-18.6423.5343.52-11.71176.28H190200-56.61-18.5831.8143.52-11.71189.84H167197-60.32-17.0729.6143.52-14.36203.40H140205-61.13-16.7129.1643.52-14.36216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-14.53271.20V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-50.33298.32V148174-62.10-14.1030.8046.02-25.13311.88V136159-63.59-13.7129.7046.02-24.83339.00V1067-71.03-12.57<	81.36	н	228	28	-60.06	-21.30	25.64	40.00	-14.36
122.04H18220-67.51-18.3621.1343.52-22.39135.60H152196-58.03-19.9429.0343.52-14.49149.16H20924-60.91-19.6226.4743.52-17.05162.72H200205-64.83-18.6423.5343.52-19.99176.28H190200-56.61-18.5831.8143.52-11.71189.84H167197-60.32-17.0729.6143.52-13.91203.00H140205-61.13-16.7129.1643.52-11.86216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-11.53257.64V152164-61.40-14.5331.0746.02-22.33284.76V136182-68.88-14.4323.6946.02-50.33298.32V148174-62.10-14.1030.8046.02-51.31339.00V136159-63.59-13.7129.7046.02-24.79365.12H112519-71.03-12.5723.2246.02-24.83339.00V1067-71.03-12.57	94.92	н	173	201	-61.10	-17.26	28.64	43.52	-14.88
135.60H152196-58.03-19.9429.0343.52-14.49149.16H20924-60.91-19.6226.4743.52-17.05162.72H200205-64.83-18.6423.5343.52-19.99176.28H190200-56.61-18.5831.8143.52-11.71189.84H167197-60.32-17.0729.6143.52-13.91203.40H140205-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-11.53230.52H1135194-64.66-15.3127.0346.02-11.53257.64V152164-61.40-14.5331.0746.02-14.95271.20V136182-68.88-14.4323.6946.02-5.03284.76V144175-51.86-14.1540.9946.02-15.22311.88V136159-63.59-13.7129.7046.02-25.13339.00V1067-71.03-12.7523.2246.02-22.83352.56H12519-73.19-12.5821.2346.02-24.79366.12H104259-74.33-12.0220.6546.02-25.73393.24H104259-74.78-11.5	108.48	н	268	207	-54.07	-16.97	35.96	43.52	-7.56
149.16 H 209 24 -60.91 -19.62 26.47 43.52 -17.05 162.72 H 200 205 -64.83 -18.64 23.53 43.52 -19.99 176.28 H 190 200 -56.61 -18.58 31.81 43.52 -11.71 189.84 H 167 197 -60.32 -17.07 29.61 43.52 -13.91 203.40 H 140 205 -61.13 -16.71 29.16 43.52 -17.18 230.52 H 135 194 -64.66 -15.31 27.03 46.02 -11.53 257.64 V 152 164 -61.40 -14.53 31.07 46.02 -22.33 284.76 V 136 182 -68.88 -14.43 23.69 46.02 -50.33 298.32 V 148 174 -62.10 -14.15 40.99 46.02 -50.33 339.00 V<	122.04	н	182	20	-67.51	-18.36	21.13	43.52	-22.39
162.72 H 200 205 -64.83 -18.64 23.53 43.52 -19.99 176.28 H 190 200 -56.61 -18.58 31.81 43.52 -11.71 189.84 H 167 197 -60.32 -17.07 29.61 43.52 -13.91 203.40 H 140 205 -61.13 -16.71 29.16 43.52 -14.36 216.96 H 121 202 -61.89 -16.27 28.84 46.02 -17.18 230.52 H 135 194 -64.66 -15.31 27.03 46.02 -11.53 257.64 V 152 164 -61.40 -14.53 31.07 46.02 -22.33 257.64 V 136 182 -68.88 -14.43 23.69 46.02 -22.33 284.76 V 148 174 -62.10 -14.15 40.99 46.02 -5.03 311.88 V<	135.60	н	152	196	-58.03	-19.94	29.03	43.52	-14.49
176.28H190200-56.61-18.5831.8143.52-11.71189.84H167197-60.32-17.0729.6143.52-13.91203.40H140205-61.13-16.7129.1643.52-14.36216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-11.53257.64V152164-61.40-14.5331.0746.02-22.33284.76V136182-68.88-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-25.13339.00V148174-62.10-14.1030.8046.02-25.13339.00V1067-71.03-12.7523.2246.02-22.80352.56H12519-73.19-12.5821.2346.02-24.79366.12H11414-73.24-12.5721.1946.02-24.83379.68H104259-74.33-12.0220.6546.02-25.04406.80H104259-74.78-11.24<	149.16	н	209	24	-60.91	-19.62	26.47	43.52	-17.05
189.84H167197-60.32-17.0729.6143.52-13.91203.40H140205-61.13-16.7129.6143.52-14.36216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-14.53257.64V152164-61.40-14.5331.0746.02-22.33257.64V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-22.83339.00V1067-71.03-12.5821.2346.02-22.80352.56H112519-73.19-12.5821.2346.02-24.79366.12H11414-73.24-12.5721.1946.02-24.83379.68H104259-74.78-11.2420.9846.02-25.04406.80H1002249-74.78-11.2420.9846.02-25.04	162.72	н	200	205	-64.83	-18.64	23.53	43.52	-19.99
203.40H140205-61.13-16.7129.1643.52-14.36216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-11.53257.64V152164-61.40-14.5331.0746.02-14.95271.20V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-16.32311.88V136159-63.59-13.7129.7046.02-25.13339.00V1067-71.03-12.7523.2246.02-22.80352.56H12519-73.19-12.5821.2346.02-24.83379.68H104259-74.33-12.0220.6546.02-24.83379.68H102249-74.78-11.2420.9846.02-25.04406.80H110245-75.32-11.1520.5346.02-25.49	176.28	н	190	200	-56.61	-18.58	31.81	43.52	-11.71
216.96H121202-61.89-16.2728.8446.02-17.18230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-11.53257.64V152164-61.40-14.5331.0746.02-22.33284.76V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-25.13339.00V1067-71.03-12.7523.2246.02-22.80352.56H12519-73.19-12.5821.2346.02-24.83379.68H104259-74.33-12.0220.6546.02-25.37393.24H102249-74.78-11.2420.9846.02-25.49406.80H110245-75.32-11.1520.5346.02-25.49	189.84	н	167	197	-60.32	-17.07	29.61	43.52	-13.91
230.52H135194-64.66-15.3127.0346.02-18.99244.08H11324-57.45-15.0634.4946.02-11.53257.64V152164-61.40-14.5331.0746.02-14.95271.20V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-16.32325.44V122-1-72.73-13.3820.8946.02-22.80352.56H12519-73.19-12.5821.2346.02-24.83379.68H104259-74.33-12.0220.6546.02-25.03393.24H102249-74.78-11.2420.9846.02-25.49406.80H110245-75.32-11.1520.5346.02-25.49	203.40	н	140	205	-61.13	-16.71	29.16	43.52	-14.36
244.08 H 113 24 -57.45 -15.06 34.49 46.02 -11.53 257.64 V 152 164 -61.40 -14.53 31.07 46.02 -14.95 271.20 V 136 182 -68.88 -14.43 23.69 46.02 -22.33 284.76 V 144 175 -51.86 -14.15 40.99 46.02 -5.03 298.32 V 148 174 -62.10 -14.10 30.80 46.02 -15.22 311.88 V 136 159 -63.59 -13.71 29.70 46.02 -16.32 325.44 V 122 -1 -72.73 -13.38 20.89 46.02 -25.13 339.00 V 106 7 -71.03 -12.75 23.22 46.02 -24.83 352.56 H 125 19 -73.19 -12.57 21.19 46.02 -24.83 379.68 H	216.96	н	121	202	-61.89	-16.27	28.84	46.02	-17.18
257.64V152164-61.40-14.5331.0746.02-14.95271.20V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-16.32325.44V122-1-72.73-13.3820.8946.02-25.13339.00V1067-71.03-12.7523.2246.02-22.80352.56H12519-73.19-12.5821.2346.02-24.83379.68H104259-74.33-12.0220.6546.02-25.07393.24H100245-75.32-11.1520.5346.02-25.49	230.52	н	135	194	-64.66	-15.31	27.03	46.02	-18.99
271.20V136182-68.88-14.4323.6946.02-22.33284.76V144175-51.86-14.1540.9946.02-5.03298.32V148174-62.10-14.1030.8046.02-15.22311.88V136159-63.59-13.7129.7046.02-16.32325.44V122-1-72.73-13.3820.8946.02-25.13339.00V1067-71.03-12.7523.2246.02-22.80352.56H12519-73.19-12.5821.2346.02-24.79366.12H11414-73.24-12.5721.1946.02-25.37393.24H1002249-74.78-11.2420.9846.02-25.04406.80H110245-75.32-11.1520.5346.02-25.49	244.08	н	113	24	-57.45	-15.06	34.49	46.02	-11.53
284.76 V 144 175 -51.86 -14.15 40.99 46.02 -5.03 298.32 V 148 174 -62.10 -14.10 30.80 46.02 -15.22 311.88 V 136 159 -63.59 -13.71 29.70 46.02 -16.32 325.44 V 122 -1 -72.73 -13.38 20.89 46.02 -25.13 339.00 V 106 7 -71.03 -12.75 23.22 46.02 -22.80 352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.04 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	257.64	V	152	164	-61.40	-14.53	31.07	46.02	-14.95
298.32 V 148 174 -62.10 -14.10 30.80 46.02 -15.22 311.88 V 136 159 -63.59 -13.71 29.70 46.02 -16.32 325.44 V 122 -1 -72.73 -13.38 20.89 46.02 -25.13 339.00 V 106 7 -71.03 -12.75 23.22 46.02 -22.80 352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 144 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.49 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	271.20	V	136	182	-68.88	-14.43	23.69	46.02	-22.33
311.88 V 136 159 -63.59 -13.71 29.70 46.02 -16.32 325.44 V 122 -1 -72.73 -13.38 20.89 46.02 -25.13 339.00 V 106 7 -71.03 -12.75 23.22 46.02 -22.80 352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.04 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	284.76	V	144	175	-51.86	-14.15	40.99	46.02	-5.03
325.44 V 122 -1 -72.73 -13.38 20.89 46.02 -25.13 339.00 V 106 7 -71.03 -12.75 23.22 46.02 -22.80 352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.49 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	298.32	V	148	174	-62.10	-14.10	30.80	46.02	-15.22
339.00 V 106 7 -71.03 -12.75 23.22 46.02 -22.80 352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	311.88	V	136	159	-63.59	-13.71	29.70	46.02	-16.32
352.56 H 125 19 -73.19 -12.58 21.23 46.02 -24.79 366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	325.44	V	122	-1	-72.73	-13.38	20.89	46.02	-25.13
366.12 H 114 14 -73.24 -12.57 21.19 46.02 -24.83 379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	339.00	V	106	7	-71.03	-12.75	23.22	46.02	-22.80
379.68 H 104 259 -74.33 -12.02 20.65 46.02 -25.37 393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	352.56	н	125	19	-73.19	-12.58	21.23	46.02	-24.79
393.24 H 102 249 -74.78 -11.24 20.98 46.02 -25.04 406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	366.12	н	114	14	-73.24	-12.57	21.19	46.02	-24.83
406.80 H 110 245 -75.32 -11.15 20.53 46.02 -25.49	379.68	н	104	259	-74.33	-12.02	20.65	46.02	-25.37
	393.24	н	102	249	-74.78	-11.24	20.98	46.02	-25.04
420.36 H 104 258 -75.65 -10.95 20.40 46.02 -25.62	406.80	н	110	245	-75.32	-11.15	20.53	46.02	-25.49
	420.36	н	104	258	-75.65	-10.95	20.40	46.02	-25.62

Table 7-7. Radiated Measurements

FCC ID: A3L-EFNN985	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 24 of 29
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7.6 Line Conducted Measurement Data §15.207; RSS-Gen (8.8)

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBµV)		
(11112)	Quasi-peak	Average	
0.15 – 0.5	66 to 56*	56 to 46*	
0.5 – 5	56	46	
5 – 30	60	50	

Table 7-8. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Field Strength Measurements

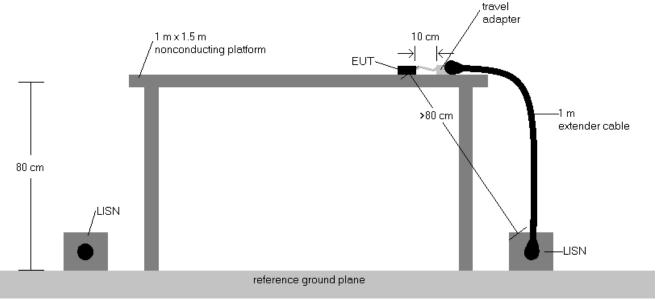
- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



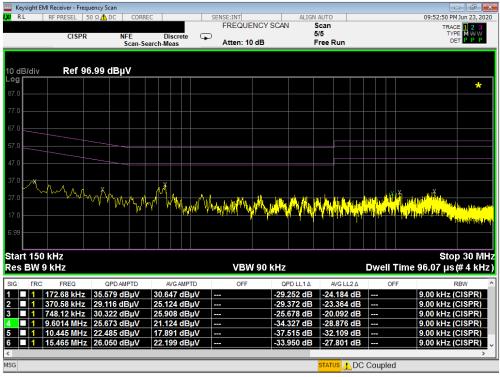


Test Notes

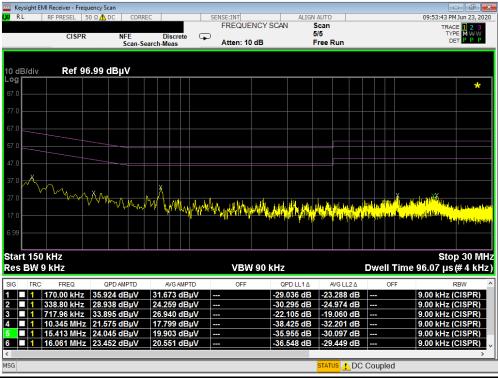
- All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP/AV Limit (dB μ V) QP/AV Level (dB μ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.
- 8. EUT was tested with the antenna terminated.

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Plot 7-5. Line-Conducted Test Plot (L1) with Antenna Terminated in 50Ω



Plot 7-6. Line-Conducted Test Plot (N) with Antenna Terminated in 50Ω

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung LED View Cover FCC ID: A3L-EFNN985** has been tested to show compliance with Part 15 Subpart C (15.225) of the FCC Rules and RSS-210 of the Innovation, Science and Economic Development Canada Rules.

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